



MODEL: MINUTE MISER
TYPE: 3 WHEEL ELECTRIC POWERED TRUCK
PART NO: 628520



Retail Price: \$6,044

PRODUCT SPECIFICATION

CONFIGURATION HIGHLIGHTS

Warranty:	24 months
Speed Control:	Solid state 250 amp programmable controller
Direction Selector:	Dash mounted (Forward-Neutral-Reverse)
Battery Charger:	24 Volt On-Board. Fully Automatic line compensating. Underwriters Laboratories (U.L.) Recognized, and CE Marked
Input:	100 – 240 Volt, 50/60 Hz, 12/6A
Output:	24 Volt, 25A, 20A@100V
Motor:	24 Volt DC series wound, brazed armature, solid copper armature. 8.25 hp (6.15 kW) @ 1570 rpm
Drive Train:	Direct motor shaft connected to transaxle pinion shaft
Electrical System:	24 Volt DC, four, 6 volt deep cycle batteries (115 minute minimum, 225 amp-hour @ 20 hr. discharge rate)
Transaxle:	Differential with helical gears
Brakes:	Dual rear wheel mechanical drum brakes. Integrated park brake
Convenience:	Seat back folds down to accommodate single rear facing passenger
Steering:	Steering tiller. Optional steering wheel

PRODUCT OVERVIEW

DIMENSIONS

Overall Length	85.0 in (216 cm)
Overall Width	30.0 in (76 cm)
Overall Height (Tiller)	39.0 in (99 cm)
Overall Height (Steering Whl)	46.0 in (117 cm)
Wheel Base	48.0 in (122 cm)
Front Wheel Track	N/A
Rear Wheel Track	25.5 in (65 cm)
Gnd Clearance @ Differential	4.0 in (10 cm)
Cargo Deck Width	23.0 in (58 cm)
Cargo Deck Length	29.0 in (73 cm)
Cargo Deck Depth	4.0 in (10 cm)
Cargo Deck Material	Plywood

VEHICLE POWER

Power Source	24 Volts DC
Motor Type	Series Wound
Max. Horsepower (kW)	8.25 hp (6.15 kW) @ 1570 rpm
Electrical System	24 Volt
Batteries (Qty, Type)	Four, 6 Volt Deep Cycle
Key or Pedal Start	Pedal Start
Battery Charger	24 VDC, 100-240 VAC On-Board, UL & CE
Speed Controller	Solid State 250 Amp Programmable
Drive Train	Motor Shaft Direct Drive
Transaxle	Differential with Helical Gears
Gear Selection	Dash Mounted Forward-Neutral-Reverse
Rear Axle Ratio	14.78:1

PERFORMANCE

Capacity	2 Persons (Seat Back Down)
Dry Weight	440.0 lb (200 kg) (Without Batteries)
Curb Weight	690.0 lb (314 kg)
Cargo Deck Load Capacity	300 lb (140 kg)
Vehicle load capacity	550 lb (250 kg)
Outside Clearance Circle	10.8 ft (3.3 m)
Intersecting Aisle Clearance	54.0 in (137 cm)
Speed (Level Ground)	10 mph ± 0.5 mph (16 kph ± 0.8 kph)
Range*	Up tp 20 miles

STEERING & SUSPENSION

Steering	Direct Handlebar to Front Fork
Front Suspension	Torque Block
Rear Suspension	Coil Springs & Single Shock Absorber
Service Brake	Rear Wheel Mechanical Drum
Parking Brake	Single Point Latch
Front Tire	4.80 x 8 (Load Range B)
Rear Tires	4.80 x 8 (Load Range B)

BODY & CHASSIS

Frame & Body	Welded steel with DuraShield™ powder coat
Body & Finish	Diamond plate pattern. Polyester primer/Acrylic
Standard Color	Safety Yellow

NOISE & VIBRATION

Noise	Sound pressure; continued A-weighted ≤ 70 db(A)
Vibration, WBV	Highest RMS value of weighted acceleration is less than 2.5 m/s
Vibration, HAV	Highest RMS value of weighted acceleration is less than 2.5 m/s

The uncertainty of measurement is 0.12 m/s

Measurement methods were applied per the ISO 2631 and ISO 5349 standards under conditions of typical vehicle surfaces.

*Range based on single charge, unloaded and on level ground

Some items shown may be optional equipment

Type E and EE Vehicles certified to UL583



FEATURES AND OPTIONS *

FEATURE	STD	OPT	FLD	PART NUMBER	RETAIL PRICE
TIRES & WHEELS:					
Front & Rear:					
4.80 x 8 (Load Range B)	X				
4 x 8 Solid Non-Marking Tires		X		Custom Shop	\$573
COLORS:					
Body:					
Vehicle Color (Safety Yellow)	X				
Premium Color - Hunter Green, Flame Red, Arctic White		X		Factory to provide	\$0
Custom Vehicle Color		X		Factory to provide	\$402
OTHER PERFORMANCE:					
Steering Wheel		X		632367	\$1,084
ELECTRICAL:					
Battery and Chargers:					
24 Volt On-Board, 100-240 VAC, UL & CE	X				
24 Volt Portable		X		887096	\$531
Charger Delete		X		630448	-\$245
T-145 Battery Upgrade		X		838702M03	\$269
Electrical:					
Horn	X				
Operator Present Switch	X				
State of Charge Meter	X				
Hour Meter		X		880631G01	\$59
Headlight		X		892942G02	\$148
MISCELLANEOUS:					
Type 'E' Certification	X				
Type 'EE' Certification (includes headlights)		X		628968	\$651
CE Option (Not available with E and EE option)		X		628520G01	\$557

* Field options do not include installation
 * Please refer to Custom Shop price pages for more options



MODEL: STOCK CHASER
TYPE: 4 WHEEL ELECTRIC POWERED PARTS PICKER
PART NO: 628521



Retail Price: \$7,108

PRODUCT SPECIFICATION

CONFIGURATION HIGHLIGHTS

Warranty:	24 months
Speed Control:	Solid state 275 amp programmable controller. Potentiometer throttle sensor
Direction Selector:	Dash mounted (Forward-Neutral-Reverse)
Battery Charger:	24 Volt On-Board. Fully line compensating. Underwriters Laboratories (U.L.) Recognized, and CE Marked
Input:	100 – 240 Volt, 50/60 Hz, 12/6A
Output:	24 Volt, 25A, 20A@100V
Motor:	24 Volt DC series wound, brazed armature, solid copper armature. 8.94 hp (6.67 kW) @ 1490 rpm
Drive Train:	Direct motor shaft connected to transaxle pinion shaft
Electrical System:	24 Volt DC, four, 6 volt deep cycle batteries (115 minute minimum, 225 amp-hour @ 20 hr. discharge rate)
Transaxle:	Differential with helical gears
Brakes:	Dual rear wheel mechanical drum brakes. Automatic park brake
Convenience:	4 & 6 rung ladders available
Towing Capacity:	2000 lbs (907 kg)
	Draw Bar Pull: Normal- 60 lb (27.2 kg), Max- 715 lb (324 kg) - Per ANSI B56.9

PRODUCT OVERVIEW

DIMENSIONS

Overall Length	88.4 in (225 cm)
Overall Width	29.5 in (75 cm)
Overall Height (No Ladder)	48.0 in (122 cm)
Overall Height (4 Step Ladder)	78.0 in (198 cm)
Overall Height (6 Step Ladder)	97.0 in (246 cm)
Wheel Base	48.3 in (123 cm)
Front Wheel Track	N/A
Rear Wheel Track	24.75 in (63 cm)
Gnd Clearance @ Differential	4.0 in (10 cm)
Cargo Deck Width	29.0 in (74 cm)
Cargo Deck Length	48.0 in (122 cm)
Cargo Deck Material	Plywood

VEHICLE POWER

Power Source	24 Volts DC
Motor Type	Series Wound
Max. Horsepower (kW)	8.94 hp (6.67 kW) @ 1490 rpm
Electrical System	24 Volt
Batteries (Qty, Type)	Four, 6 Volt Deep Cycle
Key or Pedal Start	Pedal Start
Battery Charger	24 V, 100-240 VAC On-Board, UL & CE
Speed Controller	Solid State 275 Amp Programmable
Drive Train	Motor Shaft Direct Drive
Transaxle	Differential with helical gears
Gear Selection	Dash Mounted Forward-Neutral-Reverse
Rear Axle Ratio	14.78:1

PERFORMANCE

Capacity	1 Person (Standing)
Dry Weight	522.0 lb (237 kg) (Without Batteries)
Curb Weight	810.0 lb (367 kg)
Cargo Deck Load Capacity	750.0 lb (340 kg)
Vehicle load capacity	1000.0 lb (450 kg)
Outside Clearance Circle	12.4 ft (3.8 m)
Intersecting Aisle Clearance	56.0 in (142 cm)
Speed (Level Ground)	8.5 mph max (13.7 kph max)
Range*	Up to 20 miles

STEERING & SUSPENSION

Steering	Direct Chain & Linkage
Front Suspension	Solid
Rear Suspension	Solid
Service Brake	Rear Wheel Mechanical Drum
Parking Brake	Automatic
Front Tires	4.80 x 8 (Load Range B)
Rear Tires	4.80 x 8 (Load Range B)

BODY & CHASSIS

Frame & Body	Welded steel with DuraShield™ powder coat
Body & Finish	Diamond plate pattern. Polyester primer/Acrylic
Standard Color	Safety Yellow

NOISE & VIBRATION

Noise	Sound pressure; continued A-weighted ≤ 70 db(A)
Vibration, WBV	Highest RMS value of weighted acceleration is less than 2.5 m/s
Vibration, HAV	Highest RMS value of weighted acceleration is less than 2.5 m/s

The uncertainty of measurement is 0.12 m/s
 Measurement methods were applied per the ISO 2631 and ISO 5349 standards under conditions of typical vehicle surfaces.

*Range based on single charge, unloaded and on level ground

Type E and EE Vehicles certified to UL583

Some items shown may be optional equipment



FEATURES AND OPTIONS *

FEATURE	STD	OPT	FLD	PART NUMBER	RETAIL PRICE
TIRES & WHEELS:					
4.80 x 8 (Load Range B)	X				
Trail with Silver Wheels (Load Range B)		X		630866	\$603
4 x 8 Solid Non-Marking Tires		X		Custom Shop	\$764
COLORS:					
Body Color - Safety Yellow	X				
Premium Color - Hunter Green, Flame Red, Arctic White		X		Factory to provide	\$0
Custom Body Color		X		Factory to provide	\$402
HAULING & TOWING:					
Pintle Hitch		X		32980G03	\$191
"E" Hitch		X		33732G03	\$191
Counterweight Kit with Hardware			X	630786G02	\$412
Cargo Deck (Galvanized)		X		31050G1	\$198
Cargo Deck (Stainless Steel)		X		31050G2	\$198
ELECTRICAL:					
Battery Chargers:					
24 Volt On-Board, 100-240 VAC, UL & CE	X				
24 Volt Portable, (Electrical Sys. Portable Charger req'd)		X		602712	\$472
Battery Trays and Batteries:					
T-145 Battery Upgrade - 260 Amp-Hour at 20 Hr Discharge	X			630767G02	\$269
Electrical:					
Headlights & Taillight		X		32984G01	\$252
Strobe Light (Ladder Required)			X	33212G01	\$185
Forward Motion Indicator		X		32734G1	\$55
Horn	X				
Hour Meter		X		33586G01	\$59
State of Charge Meter		X		33587G01	\$104
Operator Presence Switch	X				
OTHER PERFORMANCE:					
Ladder - 4 Step (Counterweight included)			X	33291G01 + 630533	\$590
Ladder - 6 Step (Counterweight included)			X	33291G02 + 630533	\$631
Miscellaneous:					
Type 'E' Certification	X				
Type 'EE' Certification		X		35231G01	\$160
CE Option (Not available with E or EE option)		X		628521G01	\$557
Differential Scuff Guard		X		25355G1	\$29

Gradeability

		Maximum % of Grade/Payload - per ANSI B56.9						
Vehicle Speed**	Drawbar Pull†	0%	5%	10%	15%	20%	25%	30%
mph/kmh	lbs/kg	lbs/kg	lbs/kg	lbs/kg	lbs/kg	lbs/kg	lbs/kg	lbs/kg
1.0/1.6	693/314	21290/9657	6859/3111	3541/1606	2076/942	1255/569	733/332	374/170
2.0/3.2	456/207	13390/6074	3894/1766	1711/776	747/339	207/94	-	-
3.0/4.8	154/70	3323/1507	117/53	-	-	-	-	-
4.0/6.4	143/65	2957/1341	-	-	-	-	-	-

Grades designated in this chart indicate "climbing ability" of the vehicle with one operator and no bed load. Other considerations such as braking, road surface, type of load and stability must be made for safe operation.

**Vehicle speed at Peak Torque.

†Formula: Weight to be pulled multiplied by .03 equals Drawbar Pull required except where gradeability exceeds max allowable trailer weight.

* Field options do not include installation

* Please refer to Custom Shop price pages for more options



MODEL: TUG - 5K
 TYPE: 36 VOLT TOW TRUCK
 PART NO: 628518



Retail Price: \$9,144

PRODUCT SPECIFICATION

CONFIGURATION HIGHLIGHTS

Warranty: 24 months
Speed Control: Programmable Solid State 300 amp controller. SRO Capable
Direction Selector: Dash mounted (Forward-Neutral-Reverse)
State of Charge Meter: Dash Mounted
Battery Charger: 36 Volt On-Board. Fully line compensating. Underwriters Laboratories (U.L.) Recognized, and CE Marked
Input: 100 – 240 Volt, 50/60 Hz, 12/6A
Output: 36 Volt 21A, 17A @ 100Volts
Motor: 36 Volt DC SepEx (REGEN), brazed armature, solid copper armature. 11.1 hp (8.28 kW) @ 1942 rpm
Drive Train: Triple 'V' belt connected to differential pinion shaft
Electrical System: 36 VDC, six, 6 volt deep cycle batteries (105 minute minimum, 225 amp-hour @ 20 hr. discharge rate)
Rearaxle: Differential with worm pinion gear
Brakes: 2 wheel hydraulic drum brakes; front hydraulic drum brake optional. Hand operated mechanical park brake (rear wheels)
Convenience: Cargo area with plywood deck that raises to provide access to powertrain. Seat with operator presence switch on adjustable track mounting
Steering: Handlebars come standard. Optional steering wheel available
Towing: 5000 lbs (2267 kg) at 0% grade

PRODUCT OVERVIEW

DIMENSIONS

Overall Length 76.0 in (193 cm)
 Overall Width 34.5 in (87.6 cm)
 Overall Height 37.0 in (94 cm) (Top of handlebars)
 Wheel Base 52.5 in (133.4 cm)
 Front Wheel Track N/A
 Rear Wheel Track 29.7 in (75.4 cm)
 Cargo Box Width (inside) 33.5 in (85 cm)
 Cargo Box Length (inside) 21.0 in (53 cm)
 Cargo Box Depth (inside) 1.75 in (4.4 cm)
 Cargo Box material Heavy Duty Plywood

VEHICLE POWER

Power Source 36 Volts DC
 Motor Type SepEx (REGEN) 11.1 hp (8.28 kW) @ 1942 rpm
 Horsepower (kW) 11.1 hp (8.28 kW) @ 1942 rpm
 Electrical System 36 Volt
 Batteries (Qty, Type) Six, 6 Volt Deep Cycle
 Key or Pedal Start Pedal
 Battery Charger 36 VDC On-board
 Speed Controller 300 amp rated. Programmable. SRO capable
 Drive Train Triple 'V' belt
 Differential Worm gear driven
 Gear Selection Dash Mounted Forward-Neutral-Reverse
 Final Drive Ratio 22.98:1

PERFORMANCE

Seating Capacity 1 Person
 Dry Weight 571 lb (259 kg)
 Curb Weight 940 lb (426 kg) with T 105 batteries
 Vehicle load capacity 650 lb (295 kg)
 Inside Clearance Circle (handlebar) Turnabout rear wheel
 Outside Clearance Circle (handlebar) 9 ft (2.8 m)
 Intersecting Aisle Clearance 55 in (140 cm) minimum
 Speed (Level Ground) Up to 7.8 mph (12.6 kmh)
 Draw Bar Pull - *Normal: 90 lbs (41 kg) (400 N)
 Draw Bar Pull - *Maximum: 771 lbs (350 kg) (3430 N)
 *Per ANSI B56.9
 Range* Up to 25 miles

STEERING & SUSPENSION

Steering Handlebar. Optional steering wheel
 Front Suspension Torsion Block
 Rear Suspension Coil springs with hydraulic shock absorber
 Service Brake 2 wheel hyd drum brakes
 Parking Brake Hand lever, mechanical rear brakes
 Front & Rear Tires USA Trail 4.80 x 8 (Load range B) Industrial

BODY & CHASSIS

Frame Welded Steel with DuraShield™ powder coat
 Body & Finish 1 piece, 4-way embossed diamond pattern
 Standard Color Safety Yellow

NOISE & VIBRATION

Noise Sound pressure; continued A-weighted ≤ 70 db(A)
 Vibration, WBV Highest RMS value of weighted acceleration is less than 2.5 m/s
 Vibration, HAV Highest RMS value of weighted acceleration is less than 2.5 m/s
 The uncertainty of measurement is 0.12 m/s
 Measurement methods were applied per the ISO 2631 and ISO 5349 standards under conditions of typical vehicle surfaces.

*Range based on single charge, unloaded and on level ground
 Some items shown may be optional equipment
 Type E and EE Vehicles certified to UL583



FEATURES AND OPTIONS *

FEATURE	STD	OPT	FLD	PART NUMBER	RETAIL PRICE
TIRES & WHEELS:					
USA Trail 4.80 x 8 (Load range B) Industrial	X			610235	\$750
4 x 8 Solid Non-Marking Tires		X			
COLORS - Body & Seat:					
Vehicle Color - Safety Yellow	X			Factory to provide	\$0
Premium Color - Hunter Green, Flame Red, Arctic White		X			
Vehicle Color - Custom		X		Factory to provide	\$402
Seat Color (Grey)	X				
OTHER PERFORMANCE:					
Front Brake (Standard with CE option)		X		632712	\$412
Hitch, Clevis		X		893025G01	\$170
Hitch, Pintle		X		825153G01	\$139
Steering Wheel		X		629242G02	\$733
MISCELLANEOUS:					
Type 'E' Certification (UL583)		X		634662	\$88
Type 'EE' Certification (UL 583)		X		629603	\$160
CE Option (Not available with E or EE option)		X		631708	\$756
ELECTRICAL:					
Battery Chargers:					
Battery Chgr 36 VDC 100-240 VAC, UL & CE (On Board)	X			630380G03	\$0
Battery Charger 36 VDC 115 VAC 30 Amp (Portable)		X			
Battery Charger Delete		X		630380G02	-\$134
Battery Trays/Batteries:					
Lift Out Battery Tray (Not available for CE Option)		X		630403G02	\$536
Heavy Duty Batteries (T-145)		X		838702G01	\$386
Electrical:					
Brake Light	X			628967	\$148
Headlight		X			
Horn	X			628821G01	\$59
Hour Meter		X			
State of Charge Meter	X			627956	\$98
E-Stop (standard with CE Option Pick)		X			
Custom:					
Installation of Pin and Clevis		X		Custom Quote: 3406	\$113
Heavy Duty Push Bumper		X		Custom Quote: 4524	\$380
Amber Class 3 Strobe on Pole		X		Custom Quote: 4820	\$320

* Field options do not include installation
 * Please refer to Custom Shop price pages for more options



CUSHMAN.

MODEL: TUG - 8K
TYPE: 36 VOLT TOW TRUCK
OPTION PART NO: 634659 for Base Tug (628518)



Retail Price: \$10,256

PRODUCT SPECIFICATION

CONFIGURATION HIGHLIGHTS

Warranty:	24 months
Speed Control:	Programmable Solid State 300 amp controller. SRO Capable
Direction Selector:	Dash mounted (Forward-Neutral-Reverse)
State of Charge Meter:	Dash Mounted
Battery Charger:	36 Volt On-Board. Fully line compensating. Underwriters Laboratories (U.L.) Recognized, and CE Marked
Input:	100 – 240 Volt, 50/60 Hz, 12/6A
Output:	36 Volt 21A, 17A @ 100Volts
Motor:	36 Volt DC SepEx (REGEN), brazed armature, solid copper armature. 11.1 hp (8.28 kW) @ 1942 rpm
Drive Train:	Triple 'V' belt connected to differential pinion shaft
Electrical System:	36 VDC, six, 6 volt deep cycle batteries (105 minute minimum, 225 amp-hour @ 20 hr. discharge rate)
Rearaxle:	Differential with worm pinion gear
Brakes:	2 wheel hydraulic drum brakes; front hydraulic drum brake optional. Hand operated mechanical park brake (rear wheels)
Convenience:	Cargo area with plywood deck that raises to provide access to powertrain. Seat with operator presence switch on adjustable track mounting
Steering:	Handlebars come standard. Optional steering wheel available
Towing:	8000 lbs (3629 kg) at 0% grade

PRODUCT OVERVIEW

DIMENSIONS

Overall Length	76.0 in (193 cm)
Overall Width	34.5 in (87.6 cm)
Overall Height	37.0 in (94 cm) (Top of handlebars)
Wheel Base	52.5 in (133.4 cm)
Front Wheel Track	N/A
Rear Wheel Track	29.7 in (75.4 cm)
Cargo Box Width (inside)	33.5 in (85 cm)
Cargo Box Length (inside)	21.0 in (53 cm)
Cargo Box Depth (inside)	1.75 in (4.4 cm)
Cargo Box material	Heavy Duty Plywood

VEHICLE POWER

Power Source	36 Volts DC
Motor Type	SepEx (REGEN) 11.1 hp (8.28 kW) @ 1942 rpm
Horsepower (kW)	11.1 hp (8.28 kW) @ 1942 rpm
Electrical System	36 Volt
Batteries (Qty, Type)	Six, 6 Volt Deep Cycle
Key or Pedal Start	Pedal
Battery Charger	36 VDC On-board
Speed Controller	300 amp rated. Programmable. SRO capable
Drive Train	Triple 'V' belt
Differential	Worm gear driven
Gear Selection	Dash Mounted Forward-Neutral-Reverse
Final Drive Ratio	29.88:1

PERFORMANCE

Seating Capacity	1 Person
Dry Weight	571 lb (259 kg)
Curb Weight	940 lb (426 kg) with T 105 batteries
Vehicle load capacity	650 lb (295 kg)
Inside Clearance Circle (handlebar)	Turnabout rear wheel
Outside Clearance Circle (handlebar)	9 ft (2.8 m)
Intersecting Aisle Clearance	55 in (140 cm) minimum
Speed (Level Ground)	Up to 6.0 mph (9.7 kmh)
Draw Bar Pull - *Normal:	170 lbs (77 kg) (756 N)
Draw Bar Pull - *Maximum:	1245 lbs (565 kg) (5537 N)
*Per ANSI B56.9	
Range*	Up to 25 miles

STEERING & SUSPENSION

Steering	Handlebar. Optional steering wheel
Front Suspension	Torsion Block
Rear Suspension	Coil springs with hydraulic shock absorber
Service Brake	2 wheel hyd drum brakes
Parking Brake	Hand lever, mechanical rear brakes
Front & Rear Tires	USA Trail 4.80 x 8 (Load range B) Industrial

BODY & CHASSIS

Frame	Welded Steel with DuraShield™ powder coat
Body & Finish	1 piece, 4-way embossed diamond pattern
Standard Color	Safety Yellow

NOISE & VIBRATION

Noise	Sound pressure; continued A-weighted ≤ 70 db(A)
Vibration, WBV	Highest RMS value of weighted acceleration is less than 2.5 m/s
Vibration, HAV	Highest RMS value of weighted acceleration is less than 2.5 m/s
The uncertainty of measurement is 0.12 m/s	
Measurement methods were applied per the ISO 2631 and ISO 5349 standards under conditions of typical vehicle surfaces.	

*Range based on single charge, unloaded and on level ground
 Some items shown may be optional equipment
 Type E and EE Vehicles certified to UL583



CUSHMAN.

FEATURES AND OPTIONS *

FEATURE	STD	OPT	FLD	PART NUMBER	RETAIL PRICE
TIRES & WHEELS:					
USA Trail 4.80 x 8 (Load range B) Industrial	X			610235	\$750
4 x 8 Solid Non-Marking Tires		X			
COLORS - Body & Seat:					
Vehicle Color - Safety Yellow	X			Factory to provide	\$0
Premium Color - Hunter Green, Flame Red, Arctic White		X			
Vehicle Color - Custom		X		Factory to provide	\$402
Seat Color (Black)	X				
OTHER PERFORMANCE:					
Front Brake (Standard with CE option)		X		632712	\$412
Hitch, Clevis		X		893025G01	\$170
Hitch, Pintle		X		825153G01	\$139
Steering Wheel		X		629242G02	\$733
MISCELLANEOUS:					
Type 'E' Certification (UL583)		X		634662	\$88
Type 'EE' Certification (UL 583)		X		629603	\$160
CE Option (Not available with E or EE option)		X		631708	\$970
ELECTRICAL:					
Battery Chargers:					
Battery Chgr 36 VDC 100-240 VAC, UL & CE (On Board)	X			630380G03	\$0
Battery Charger 36 VDC 115 VAC 30 Amp (Portable)		X			
Battery Charger Delete		X			
Battery Trays/Batteries:					
Lift Out Battery Tray (Not available for CE Option)		X		630403G02	\$536
Heavy Duty Batteries (T-145)		X		838702G01	\$386
Electrical:					
Brake Light	X			628967	\$148
Headlight		X			
Horn	X			628821G01	\$59
Hour Meter		X			
State of Charge Meter	X				
E-Stop (standard with CE Option Pick)		X		627956	\$98
Custom:					
Installation of Pin and Clevis		X		Custom Quote: 3406	\$113
Heavy Duty Push Bumper		X		Custom Quote: 4524	\$380
Amber Class 3 Strobe on Pole		X		Custom Quote: 4820	\$320

* Field options do not include installation
 * Please refer to Custom Shop price pages for more options

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MODEL: TITAN LD 2 PASSENGER
 TYPE: 36 VOLT MATERIALS CARRIER
 PART NO: 633098G01



Retail Price: \$9,188

PRODUCT SPECIFICATION

CONFIGURATION HIGHLIGHTS

Warranty: 24 months
Battery Charger: On-board, fully line compensating. Underwriters Laboratories. (U.L.) Listed, (C.S.A. Certified)
 Input: 110 – 120 Volt, 60 Hz, 10.5 amp
 Output: 36 VDC at 21 amps. 10.5 amp @ 120 VAC
Motor: 36 Volt DC series wound, brazed armature, solid copper windings. Vented 8 hp (6 kW) @ 1600 rpm
Controller: Programmable speed controller with 2 pre-set speeds: 9 mph and 13 mph
Drive Train: Direct motor shaft connected to transaxle pinion shaft
Electrical System: 36 Volt DC, six, 6 volt deep cycle batteries (115 minute minimum, 225 amp-hour @ 20 hr. discharge rate)
 DC-DC converter included.
Transaxle: Differential with helical gears
Brakes: Dual rear wheel hydraulic 7 in (18 cm) self-adjusting drum brakes. Mechanical hand operated park brake
Cargo Bed: Plywood 75 in x 41 in (191 x 105 cm). Lifts for access to powertrain.
Capacity: Seating for 2 persons
Towing: 2,500 lbs (1134 kg) **Draw Bar Pull (Norm):** 75 lbs (34 kg) - per ANSI B56.9

PRODUCT OVERVIEW

DIMENSIONS		PERFORMANCE	
Overall Length	114.0 in (290 cm)	Capacity	2 Persons
Overall Width	44.0 in (112 cm)	Dry Weight	1105 lb (502 kg)
Overall Height (Steering Whl)	46.0 in (117 cm)	Curb Weight	1475 lb (670 kg)
Wheel Base	66.0 in (168 cm)	Cargo Deck Load Capacity	1750 lb (795 kg)
Front Wheel Track	37 in (94 cm)	Vehicle load capacity	2150 lb (977 kg)
Rear Wheel Track	37 in (94 cm)	Outside Clearance Circle	22.0 ft (6.7 m)
Gnd Clearance @ Differential	5 in (13 cm)	Intersecting Aisle Clearance	84.0 in (213 cm)
Cargo Deck Width	41.5 in (105 cm)	Speed (Level Ground)	13 mph ± 0.5 mph (21 kph ± 0.8 kph)
Cargo Deck Length	75.0 in (191 cm)	Range*	Up to 25 miles
Cargo Deck Load Height	28.5 in (72.3 cm)	STEERING & SUSPENSION	
Cargo Deck Material	Heavy Duty Plywood	Steering	Worm Gear
VEHICLE POWER		Front Suspension	Independent, Transverse Leaf Spring, Shocks
Power Source	36 Volts DC	Rear Suspension	Leaf Springs
Motor Type	Series Wound	Service Brake	Rear Wheel Hydraulic Drum
Horsepower (kW)	8.0 hp (6 kW) @ 1600 rpm	Parking Brake	Hand Operated Mechanical
Electrical System	36 Volt	Front Tire	5.70 x 8 (Load Range C)
Batteries (Qty, Type)	Six, 6 Volt Deep Cycle	Rear Tires	5.70 x 8 (Load Range C)
Key or Pedal Start	Pedal Start	BODY & CHASSIS	
Battery Charger	36 V On-Board, 120 VAC, UL & CSA	Frame & Body	Welded steel with DuraShield™ powder coat
Speed Controller	Solid State 400 Amp Rated	Body & Finish	Diamond plate ptn. Polyester primer + acrylic
Drive Train	Motor Shaft Direct Drive	Standard Color	Yellow
Transaxle	Differential with Helical Gears		
Gear Selection	Center Console Forward-Neutral-Reverse		
Rear Axle Ratio	14.76:1		

*Range based on single charge, unloaded and on level ground
 Some items shown may be optional equipment



FEATURES AND OPTIONS *					
FEATURE	STD	OPT	FLD	PART NUMBER	RETAIL PRICE
TIRES & WHEELS:					
Front & Rear:					
5.70 x 8 (Load Range C)	X				
5.70 x 8 Solid Non-Marking Tires		X		636602	\$776
COLORS:					
Vehicle Color - Safety Yellow	X				
Premium Color - Hunter Green, Flame Red, Arctic White		X		Factory to provide	\$0
ELECTRICAL:					
Battery Chargers:					
36 Volt On-Board, 120 VAC, UL & CSA	X				
36 Volt Portable w/10 ft DC Cord, 120/230 VAC		X		603679	\$218
36 Volt Portable w/18 ft DC Cord, 120/230 VAC		X		603678	\$244
Batteries					
T-105 Battery Set	X				
T-145 36V 250 AH Battery Upgrade		X		631955	\$324
Other Electrical					
Brake Lights	X				
Horn	X				
Hour Meter	X				
State of Charge Meter	X				
DC/DC Converter	X				
Headlights		X		602445	\$90
Headlights & Turn Signals		X		601654	\$491
OTHER PERFORMANCE:					
Rear Hydraulic Brakes	X				
Rear Suspension w/o Shock Absorbers	X				
Bumper (Front)		X		601228	\$127
Bumper (Rear)		X		601229	\$127
Hitch, Clevis - 5/8" hole (Requires Rear Bumper)		X		602133	\$182
Hitch, Pintle (Requires Rear Bumper)		X		601927	\$215
Drop Rails			X	602502P	\$908
Box Sides & Tailgate			X	886467G01	\$984
Weather Protection:					
Sun Canopy (Top) Short			X	602134	\$333
Sun Canopy (Top) Long			X	602332	\$1,238
Weather Protection Enclosed (Long Top & Wndshld Reqd)			X	602628	\$661
Windshield, Fold Down (Short Sun Canopy Reqd)			X	74190G01	\$155
Windshield (Long Sun Canopy Reqd)			X	602908	\$134

* Field options do not include installation

* Please refer to Custom Shop price pages for more options



MODEL: TITAN HD (2 PASSENGER)
 TYPE: 36 VOLT MATERIALS CARRIER
 PART NO: 633097G01

Distributor Price: \$7,952
Retail Price: \$10,602



PRODUCT SPECIFICATION

CONFIGURATION HIGHLIGHTS

Warranty: 24 months
Battery Charger: On-board, fully line compensating. Underwriters Laboratories. (U.L.) Listed, (C.S.A. Certified)
Input: 110 – 120 Volt, 60 Hz, 10.5 amp
Output: 36 VDC at 21 amps. 10.5 amp @ 120 VAC
Motor: 36 Volt DC series wound, brazed armature, solid copper windings. Vented 8 hp (6 kW) @ 1600 rpm
Controller: Programmable speed controller with 2 pre-set speeds: 9 mph and 13 mph
Drive Train: Direct motor shaft connected to transaxle pinion shaft
Electrical System: 36 Volt DC, (6) x 6-volt deep cycle batteries (115 minute minimum, 225 amp-hour @ 20 hr. discharge rate) in swing out battery trays
 DC-DC converter included.
Transaxle: Differential with helical gears
Brakes: Dual rear wheel hydraulic 7 in (18 cm) self-adjusting drum brakes. Front hydraulic brakes optional. Mechanical hand operated park brake
Cargo Bed: Plywood 75 in x 41 in (191 x 105 cm). Lifts for access to powertrain.
Capacity: Seating for 2 persons
Towing: 4,600 lbs (2086 kg) **Draw Bar Pull (Normal):** 138 lbs (63 kg) - per ANSI B56.9

PRODUCT OVERVIEW

DIMENSIONS

Overall Length 114.0 in (290 cm)
 Overall Width 44.5 in (113 cm)
 Overall Height (Steering Whl) 46.0 in (117 cm)
 Overall Height (Optional Cab) 72.0 in (183 cm)
 Wheel Base 66.0 in (168 cm)
 Front Wheel Track 36.8 in (93 cm)
 Rear Wheel Track 36.3 in (92 cm)
 Gnd Clearance @ Differential 4.75 in (12 cm)
 Cargo Deck Width 41.5 in (105 cm)
 Cargo Deck Length 75.0 in (191 cm)
 Cargo Deck Load Height 29.0 in (74 cm)
 Cargo Deck Material Heavy Duty Plywood

VEHICLE POWER

Power Source 36 Volts DC
 Motor Type Series Wound
 Horsepower (kW) 8.0 hp (6 kW) @ 1600 rpm
 Electrical System 36 Volt
 Batteries (Qty, Type) Six, 6 Volt Deep Cycle, Swing Out Batteries
 Key or Pedal Start Pedal Start
 Battery Charger 36 V On-Board, 120 VAC, UL & CSA
 Speed Controller Solid State 400 Amp Rated
 Drive Train Motor Shaft Direct Drive
 Transaxle Differential with Helical Gears
 Gear Selection Dash Mounted Forward-Neutral-Reverse
 Rear Axle Ratio 14.76:1

PERFORMANCE

Capacity 2 Persons
 Dry Weight 1040.0 lb (475 kg) (Without Batteries)
 Curb Weight 1410.0 lb (640 kg)
 Cargo Deck Load Capacity 2200 lb (1000 kg)
 Vehicle load capacity 2600 lb (1182 kg)
 Outside Clearance Circle 22.0 ft (6.7 m)
 Intersecting Aisle Clearance 84.0 in (213 cm)
 Speed (Level Ground) 13 mph ± 0.5 mph (21 kph ± 0.8 kph)
 Range* Up to 25 miles

STEERING & SUSPENSION

Steering Worm Gear
 Front Suspension Independent, Transverse Leaf Spring, Shocks
 Rear Suspension Leaf Springs & Shock Absorbers
 Service Brake Rear Wheel Hydraulic Drum
 Parking Brake Hand Operated Mechanical
 Front Tire 5.70 x 8 (Load Range C)
 Rear Tires 5.70 x 8 (Load Range C)

BODY & CHASSIS

Frame & Body Welded Steel with DuraShield™ Powder Coat
 Body & Finish Diamond plate ptn. Polyester primer + acrylic
 Standard Color Yellow

*Range based on single charge, unloaded and on level ground
 Some items shown may be optional equipment



FEATURES AND OPTIONS *					
FEATURE	STD	OPT	FLD	PART NUMBER	RETAIL PRICE
TIRES & WHEELS:					
Front & Rear:					
5.70 x 8 (Load Range C)	X				
5.70 x 8 Solid Non-Marking Tires		X		636602	\$776
COLORS:					
Vehicle Color - Yellow	X				
Premium Color - Hunter Green, Flame Red, Arctic White		X		Factory to provide	\$0
Vehicle Color - Custom Color		X		Factory to provide	\$402
ELECTRICAL:					
Battery Chargers:					
36 Volt On-Board, 120 VAC, UL & CSA	X				
36 Volt Portable w/10 ft DC Cord, 120/230 VAC		X		603679	\$218
36 Volt Portable w/18 ft DC Cord, 120/230 VAC		X		603678	\$244
Batteries					
T-105 Battery Set	X				
T-145 36V 250 AH Battery Upgrade		X		631955	\$324
Electrical					
Brake Lights	X				
Horn	X				
Hour Meter	X				
Operator Presence Switch	X				
State of Charge Meter	X				
DC/DC Converter	X				
Headlights		X		602445	\$90
Headlights & Turn Signals		X		601654	\$491
Forward Motion Indicator		X		602746	\$56
Type 'E' Classification				Available on Titan XD	
Type 'EE' Classification				Available on Titan XD	
OTHER PERFORMANCE:					
Rear Hydraulic Brakes	X				
Bumper (Front)		X		601228	\$127
Bumper (Rear)		X		601229	\$127
Cargo Deck (Steel)		X		602486	\$318
Differential Scuff Guard		X		72764G01	\$35
Hitch, Clevis - 5/8" hole (Requires Rear Bumper)		X		602133	\$182
Hitch, Pintle (Requires Rear Bumper)		X		601927	\$215
Drop Rails			X	602502P	\$908
Box Sides & Tailgate			X	886467G01	\$984
Weather Protection:					
Cab without Doors, Yellow			X	604862	\$2,229
Cab with Doors, Yellow			X	604358	\$3,351
Cab without Doors, White			X	612591	\$2,229
Cab with Doors, White			X	612590	\$3,351
Sun Canopy (Top) Short			X	602134	\$333
Sun Canopy (Top) Long			X	602332	\$1,238
Weather Protection Enclosed (Long Top & Wndshld Reqd)			X	602628	\$661
Windshield, Fold Down (Short Sun Canopy Reqd)			X	74190G01	\$155
Windshield (Long Sun Canopy Reqd)			X	602908	\$134

* Field options do not include installation

* Please refer to Custom Shop price pages for more options



MODEL: TITAN HD (2 PASSENGER)
TYPE: 48 VOLT MATERIALS CARRIER
PART NO: 633096G01



Retail Price: \$11,541

PRODUCT SPECIFICATION

CONFIGURATION HIGHLIGHTS

Warranty: 24 months
Battery Charger: On-board, High Frequency, Underwriters Laboratories. (U.L.) Listed, (C.S.A. Certified)
Input: 100 – 240 Volt, 50/60 Hz, 10/5 amp
Output: 48 VDC at 18 amp. 12 amp @ 120 VAC
Motor: 48 Volt DC shunt wound, brazed armature, solid copper windings. Non-vented 15.2 hp (11.3 kW) @ 1600 rpm (1 hour)
Controller: Programmable speed controller with 2 pre-set speeds: 9 mph and 13 mph
Drive Train: Direct motor shaft connected to transaxle pinion shaft
Electrical System: 48 Volt DC, (8) x 6-volt deep cycle batteries (115 minute minimum, 225 amp-hour @ 20 hr. discharge rate) in two swing out battery trays DC-DC converter included.
Transaxle: Differential with helical gears
Brakes: Dual rear wheel hydraulic 7 in (18 cm) self-adjusting drum brakes. Front hydraulic brakes optional. Mechanical hand operated park brake
Cargo Bed: Plywood 75 in x 41 in (191 x 105 cm). Lifts for access to powertrain.
Capacity: Seating for 2 persons
Towing: 4,600 lbs (2086 kg) **Draw Bar Pull (N 138 lbs (63 kg) - per ANSI B56.9**

PRODUCT OVERVIEW

DIMENSIONS

Overall Length	114.0 in (290 cm)
Overall Width	44.5 in (113 cm)
Overall Height (Steering Wheel)	46.0 in (117 cm)
Overall Height (Optional Cab)	72.0 in (183 cm)
Wheel Base	66.0 in (168 cm)
Front Wheel Track	36.8 in (93 cm)
Rear Wheel Track	36.3 in (92 cm)
Gnd Clearance @ Differential	4.75 in (12 cm)
Cargo Deck Width	41.5 in (105 cm)
Cargo Deck Length	75.0 in (191 cm)
Cargo Deck Load Height	29.0 in (74 cm)
Cargo Deck Material	Heavy Duty Plywood

VEHICLE POWER

Power Source	48 Volts DC
Motor Type	Shunt Wound
Horsepower (kW)	15.2 hp (11.3 kW) @ 1600 rpm
Electrical System	48 Volt
Batteries (Qty, Type)	Eight, 6 Volt Deep Cycle, Swing Out Batteries
Key or Pedal Start	Pedal Start
Battery Charger	48 VDC 120 VAC, UL/CSA
Speed Controller	Solid State 400 Amp Precision Drive System®
Drive Train	Motor Shaft Direct Drive
Transaxle	Differential with Helical Gears
Gear Selection	Dash Mounted Forward-Neutral-Reverse
Rear Axle Ratio	14.76:1

PERFORMANCE

Capacity	2 Persons
Dry Weight	1225.0 lb (560 kg) (Without Batteries)
Curb Weight	1720.0 lb (780 kg)
Cargo Deck Load Capacity	2200 lb (997 kg)
Vehicle load capacity	2600 lb (1180 kg)
Outside Clearance Circle	22.0 ft (6.7 m)
Intersecting Aisle Clearance	84.0 in (213 cm)
Speed (Level Ground)	13 mph ± 0.5 mph (21 kph ± 0.8 kph)
Range*	Up to 30 miles

STEERING & SUSPENSION

Steering	Worm Gear
Front Suspension	Independent, Transverse Leaf Spring
Rear Suspension	Leaf Springs
Service Brake	Rear Wheel Hydraulic Drum. Front Optional
Parking Brake	Hand Operated Mechanical
Front Tire	5.70 x 8 (Load Range C)
Rear Tires	5.70 x 8 (Load Range C)

BODY & CHASSIS

Frame & Body	Welded steel with DuraShield™ powder coat
Body & Finish	Diamond plate ptn. Polyester primer + acrylic
Standard Color	Yellow

*Range based on single charge, unloaded and on level ground
 Some items shown may be optional equipment



FEATURES AND OPTIONS *

FEATURE	STD	OPT	FLD	PART NUMBER	RETAIL PRICE
TIRES & WHEELS:					
Front & Rear:					
5.70 x 8 (Load Range C)	X				
5.70 x 8 Solid Non-Marking Tires		X		636602	\$776
COLORS:					
Vehicle Color - Yellow	X			600119M & 600116	
Premium Color - Hunter Green, Flame Red, Arctic White		X		Factory to provide	\$0
Vehicle Color - Custom Color		X		Factory to provide	\$402
ELECTRICAL:					
Battery Chargers					
Battery Charger, 48 VDC On-Board, UL/CSA	X				
Batteries					
T-105 Battery Set	X				
T-145 48V 250 AH Battery Upgrade		X		605559	\$386
Electrical					
Brake Lights	X				
Horn	X				
Hour Meter	X				
Operator Presence Switch	X				
State of Charge Meter	X				
DC/DC Converter	X				
Headlights		X		602445	\$90
Headlights & Turn Signals		X		601654	\$491
Forward Motion Indicator		X		630638	\$56
Type 'E' Classification				Available on Titan XD	
Type 'EE' Classification				Available on Titan XD	
OTHER PERFORMANCE:					
Rear Hydraulic Brakes	X				
Bumper - Front		X		601228	\$127
Bumper - Rear		X		601229	\$127
HydroLink Battery Watering System		X		629540	\$585
Cargo Deck (Steel)		X		602486	\$318
Differential Scuff Guard		X		72764G01	\$35
Hitch, Clevis - 5/8" hole (Requires Rear Bumper)		X		602133	\$182
Hitch, Pintle (Requires Rear Bumper)		X		601927	\$215
Drop Rails			X	602502P	\$908
Box Sides & Tailgate			X	886467G01	\$984
Weather Enclosures					
Cab with Doors, Yellow			X	604358	\$3,351
Cab without Doors, Yellow			X	604862	\$2,229
Cab with Doors, White			X	612590	\$3,351
Cab without Doors, White			X	612591	\$2,229
Sun Canopy (Top) Short			X	602134	\$333
Sun Canopy (Top) Long			X	602332	\$1,238
Weather Protection Enclosed (Long Top & Wndshld Req'd)			X	602628	\$661
Windshield, Fold Down (Requires Short Sun Canopy)			X	74190G01	\$155
Windshield (Requires Long Sun Canopy)			X	602908	\$134

* Field options do not include installation
 * Please refer to Custom Shop price pages for more options



MODEL: TITAN XD (2 PASSENGER)
TYPE: 48 VOLT MATERIALS CARRIER
PART NO: 618566



Retail Price: \$12,643

PRODUCT SPECIFICATION

CONFIGURATION HIGHLIGHTS

Warranty: 24 months
Battery Charger: On-board, Underwriters Laboratories. UL Recognized for US and Canada, and CE Marked
Input: 100 – 240 Volt, 50/60 Hz, 10/5 amp
Output: 48 VDC at 18 amp. 14.5 amp @ 100 VAC
Motor: 48 Volt DC shunt wound, brazed armature, solid copper windings. Fan Forced Cooled 17.2 hp (12.8 kW) (Peak)
Controller: Programmable speed controller with 2 pre-set speeds: 9 mph and 13 mph
Drive Train: Direct motor shaft connected to transaxle pinion shaft
Electrical System: 48 Volt DC, (8) x 6-volt deep cycle batteries (115 minute minimum, 225 amp-hour @ 20 hr. discharge rate) in two swing out battery trays
Standard recessed headlights with DC-DC converter included
Transaxle: Differential with helical gears
Brakes: Front hydraulic disc brakes. Rear wheel hydraulic 160mm self-adjusting drum brakes. Mechanical hand operated park brake
Cargo Bed: Plywood 75 in x 41 in (191 x 105 cm). Lifts for access to powertrain.
Capacity: Seating for 2 persons
Towing: 5000 lb (2268 kg)/3000lb(1361 kg)EE **Draw Bar Pull (Normal):** 150 lbs (68 kg) - per ANSI B56.9

PRODUCT OVERVIEW

DIMENSIONS

Overall Length 114.0 in (290 cm)
Overall Width 44.5 in (113 cm)
Overall Height (Steering Wheel) 47.5 in (120.6 cm)
Overall Height (Optional Cab) 72.0 in (183 cm)
Wheel Base 67.0 in (170 cm)
Front Wheel Track 38.0 in (96.5 cm)
Rear Wheel Track 38.0 in (96.5 cm)
Gnd Clearance @ Differential 5.0 in (12.7 cm)
Cargo Deck Width 41.5 in (105 cm)
Cargo Deck Length 75.0 in (191 cm)
Cargo Deck Load Height 29.0 in (74 cm)
Cargo Deck Material Heavy Duty Plywood

VEHICLE POWER

Power Source 48 Volts DC
Motor Type Shunt Wound
Horsepower (kW) 17.2 hp (12.8 kW) (Peak)
Electrical System 48 Volt
Batteries (Qty, Type) Eight, 6 Volt Deep Cycle, Swing Out Batteries
Key or Pedal Start Pedal Start
Battery Charger 48V On-Board, 120VAC UL R/C
Speed Controller Solid State 400 Amp Precision Drive System®
Drive Train Motor Shaft Direct Drive
Transaxle Differential with Helical Gears
Gear Selection Dash Mounted Forward-Neutral-Reverse
Rear Axle Ratio 14.9:1 (17:1 EE)

PERFORMANCE

Capacity 2 Persons
Dry Weight 1208 lb (548 kg) (Without Batteries)
Curb Weight 1752 lb (795 kg)
Cargo Deck Load Capacity 2600 lb (1179 kg)/1600 lb(726 kg) EE
Vehicle load capacity 3000 lb (1361 kg) /2000 lb(907 kg) EE
Outside Clearance Circle 21.25 ft (6.47 m)
Intersecting Aisle Clearance 84.0 in (213 cm)
Speed (Level Ground) 13 mph ± 0.5 mph (21 kph ± 0.8 kph)
Type EE 10 mph ± .5 (16.1 kph ± 0.8)
Range* Up to 30 miles

STEERING & SUSPENSION

Steering Rack and Pinion
Front Suspension Independent, Transverse Leaf Spring, Shocks
Rear Suspension Leaf Springs & Shock Absorbers
Service Brake Front Hydraulic Disc, Rear Hydraulic Drum
Parking Brake Hand Operated Mechanical
Front Tire 5.70 x 8 (Load Range C)
Rear Tires 5.70 x 8 (Load Range C)

BODY & CHASSIS

Frame & Body Welded steel with DuraShield™ powder coat
Body & Finish Diamond plate ptn. Polyester primer + acrylic
Standard Color Yellow

NOISE & VIBRATION

Noise Sound pressure; continued A-weighted equal to or less than 70 db(A)
Vibration, WBV Highest RMS value of weighted acceleration is less than 2.5 m/s2
Vibration, HAV Highest RMS value of weighted acceleration is less than 2.5 m/s2
Measurement methods were applied per the ISO 2631 and ISO 5349 standards under conditons of typical vehicle surfaces.

*Range based on single charge, unloaded and on level ground

Some items shown may be optional equipment

Type E and EE Vehicles certified to UL583



CUSHMAN

OPTIONS & FIELD INSTALLED ACCESSORIES*

FEATURE	STD	OPT	FLD	PART NUMBER	RETAIL PRICE
TIRES & WHEELS:					
Front & Rear:					
5.70 x 8 (Load Range C)	X				
5.70 x 8 Solid Non-Marking Tires		X		636602	\$776
COLORS:					
Vehicle Color - Yellow	X				
Premium Color - Hunter Green, Flame Red, Arctic White		X		Factory to provide	\$0
Custom Vehicle Color		X		Factory to provide	\$402
ELECTRICAL:					
Battery Chargers					
48V On-Board, 120VAC UL/CSA	X				
Lighting Package:					
Brake Lights	X				
DC/DC Converter	X				
Headlights	X				
LED Headlights		X		625023	\$180
Turn Signals (Headlights req'd)		X		625022	\$219
LED Turn Signals (Headlights req'd)		X		625024	\$402
Miscellaneous:					
Hour Meter	X				
Horn	X				
Operator Presence Switch	X				
State of Charge Meter	X				
T-145 48V 250 AH Battery Upgrade			X	605559	\$386
Maintenance Free Gel Battery(180 Ah)			X	633743 + 631132	\$852
HydroLink Battery Watering System			X	629540	\$585
Type 'E' Classification			X	630232	\$88
Type 'EE' Classification			X	630412	\$160
CE Certification (Not available with E or EE option)			X	618566G01	\$557
OTHER PERFORMANCE:					
Front & Rear Hydraulic Brakes	X				
Box Sides & Tailgate			X	886467G01	\$984
Bumper - Front		X		601228	\$127
Bumper - Rear		X		601229	\$127
Cab with Doors, Yellow			X	604358	\$3,351
Cab without Doors, Yellow			X	604862	\$2,229
Cab with Doors, White			X	612590	\$3,351
Cab without Doors, White			X	612591	\$2,229
Cargo Deck (Steel)		X		602486	\$318
Drop Rails			X	602502P	\$908
Forward Motion Indicator		X		630638	\$56
Hitch, Clevis - 5/8" hole (Requires Rear Bumper)		X		602133	\$182
Hitch, Pintle (Requires Rear Bumper)		X		601927	\$215
Sun Canopy (Top) Short			X	602134	\$333
Sun Canopy (Top) Long			X	602332	\$1,238
Windshield (Requires Long Sun Canopy)			X	602908	\$134
Windshield, Fold Down (Requires Short Sun Canopy)			X	74910G01	\$155
Weather Protection Enclosure (Lg Top & Windshld Req'd)			X	602628	\$661
CUSTOM:					
Bed Extension (up to 96" total length)			X	Custom Quote: 3314	\$784
Amber Class 3 Strobe on Pole			X	Custom Quote: 4820	\$320
Installation of Hard Cab			X	Custom Quote: 4395	\$508
Aluminum Van Box with Side Doors			X	Custom Quote: 3672	\$3,333

* Field options do not include installation

* Please refer to Custom Shop price pages for more options

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Cushman
 1451 Marvin Griffin Rd
 Augusta, GA 30906
 1-800 241-5855

Effective: January 1, 2015
 All prices Ex-works Augusta, GA, USA
 All orders subject to acceptance & credit approval by E-Z-GO
 Terms: Net 30 days



MODEL: TITAN XD (4 PASSENGER)
TYPE: 48 VOLT MATERIALS CARRIER
PART NO: 618569



Retail Price: \$12,959

PRODUCT SPECIFICATION

CONFIGURATION HIGHLIGHTS

Warranty: 24 months
Battery Charger: On-board, Underwriters Laboratories. UL Recognized for US and Canada, and CE Marked
Input: 100 – 240 Volt, 50/60 Hz, 10/5 amp
Output: 48 VDC at 18 amp. 14.5 amp @ 100 VAC
Motor: 48 Volt DC shunt wound, brazed armature, solid copper windings. Vented 17.2 hp (12.8 kW) (Peak)
Controller: Programmable speed controller with 2 pre-set speeds: 9 mph and 13 mph
Drive Train: Direct motor shaft connected to transaxle pinion shaft
Electrical System: 48 Volt DC, (8) x 6-volt deep cycle batteries (115 minute minimum, 225 amp-hour @ 20 hr. discharge rate) in two swing out battery trays
Standard recessed headlights with DC-DC converter included
Transaxle: Differential with helical gears
Brakes: Front hydraulic disc brakes. Rear wheel hydraulic 160mm self-adjusting drum brakes. Mechanical hand operated park brake
Cargo Bed: Plywood 54 in x 41 in (191 x 105 cm). Lifts for access to powertrain.
Capacity: Seating for 4 persons
Towing: 5000 lb (2268 kg)/3000lb(1361 kg)EE **Draw Bar Pull (Normal):** 150 lbs (68 kg) - per ANSI B56.9

PRODUCT OVERVIEW

DIMENSIONS

Overall Length 114.0 in (290 cm)
Overall Width 44.5 in (113 cm)
Overall Height (Steering Wheel) 47.5 in (120.6 cm)
Overall Height (Optional Cab) 72.0 in (183 cm)
Wheel Base 67 in (170 cm)
Front Wheel Track 38 in (96.5 cm)
Rear Wheel Track 38 in (96.5 cm)
Gnd Clearance @ Differential 5.0 in (12.7 cm)
Cargo Deck Width 41.5 in (105 cm)
Cargo Deck Length 53.5 in (136 cm)
Cargo Deck Load Height 29.0 in (74 cm)
Cargo Deck Material Heavy Duty Plywood

VEHICLE POWER

Power Source 48 Volts DC
Motor Type Shunt Wound
Horsepower (kW) 17.2 hp (12.8 kW) (Peak)
Electrical System 48 Volt
Batteries (Qty, Type) Eight, 6 Volt Deep Cycle
Key or Pedal Start Pedal Start
Battery Charger 48V On-Board, 120VAC UL R/C
Speed Controller Solid State 400 Amp Precision Drive System®
Drive Train Motor Shaft Direct Drive
Transaxle Differential with Helical Gears
Gear Selection Dash Mounted Forward-Neutral-Reverse
Rear Axle Ratio 14.9:1 (17.1 EE)

PERFORMANCE

Capacity 4 Persons
Dry Weight 1225.0 lb (560 kg) (Without Batteries)
Curb Weight 1720.0 lb (780 kg)
Cargo Deck Load Capacity 2200 lb (998 kg)/1200 lb(544 kg) EE
Vehicle load capacity 3000 lb (1361 kg) /2000 lb(907 kg) EE
Outside Clearance Circle 21.25 ft (6.47 m)
Intersecting Aisle Clearance 84.0 in (213 cm)
Speed (Level Ground) 13 mph ± 0.5 mph (21 kph ± 0.8 kph)
Type EE 10 mph ± .5 (16.1 kph ± 0.8)
Range* Up to 30 miles

STEERING & SUSPENSION

Steering Rack and Pinion
Front Suspension Independent, Transverse Leaf Spring, Shocks
Rear Suspension Leaf Springs & Shock Absorbers
Service Brake Front hydraulic disc, Rear hydraulic drum
Parking Brake Hand Operated Mechanical
Front Tire 5.70 x 8 (Load Range C)
Rear Tires 5.70 x 8 (Load Range C)

BODY & CHASSIS

Frame & Body Welded steel with DuraShield™ powder coat
Body & Finish Diamond plate ptn. Polyester primer + acrylic
Standard Color Yellow

NOISE & VIBRATION

Noise Sound pressure; continued A-weighted equal to or less than 70 db(A)
Vibration, WBV Highest RMS value of weighted acceleration is less than 2.5 m/s²
Vibration, HAV Highest RMS value of weighted acceleration is less than 2.5 m/s²
Measurement methods were applied per the ISO 2631 and ISO 5349 standards under conditions of typical vehicle surfaces.

*Range based on single charge, unloaded and on level ground
Some items shown may be optional equipment
Type E and EE Vehicles certified to UL583



OPTIONS & FIELD INSTALLED ACCESSORIES*

FEATURE	STD	OPT	FLD	PART NUMBER	RETAIL PRICE
TIRES & WHEELS:					
Front & Rear:					
5.70 x 8 (Load Range C)	X				
5.70 x 8 Solid Non-Marking Tires		X		636602	\$776
COLORS:					
Vehicle Color - Yellow	X				
Premium Color - Hunter Green, Flame Red, Arctic White		X		Factory to provide	\$0
Custom Vehicle Color		X		Factory to provide	\$402
ELECTRICAL:					
Battery Chargers					
48V On-Board, 120VAC UL/CSA	X				
Lighting Package:					
Brake Lights	X				
Headlights (recessed, DC/DC converter included)	X				
LED Headlights		X		625023	\$180
Turn Signals (Headlights req'd)		X		625022	\$219
LED Turn Signals (Headlights req'd)		X		625024	\$402
Miscellaneous:					
Hour Meter	X				
Horn	X				
Operator Presence Switch	X				
State of Charge Meter	X				
T-145 48V 250 AH Battery Upgrade		X		605559	\$386
Maintenance Free Gel Battery(180 Ah)		X		633743 + 631132	\$852
HydroLink Battery Watering System		X		629540	\$585
Type 'E' Classification		X		630233	\$88
Type 'EE' Classification		X		630413	\$160
CE Certification (Not available with E or EE option)		X		618569G01	\$557
OTHER PERFORMANCE:					
Front & Rear Hydraulic Brakes	X				
Bumper - Front		X		601228	\$127
Bumper - Rear		X		601229	\$127
Cab with Doors, Yellow			X	604358	\$3,351
Cab without Doors, Yellow			X	604862	\$2,229
Cab with Doors, White			X	612590	\$3,351
Cab without Doors, White			X	612591	\$2,229
Cargo Deck (Steel)		X		602486	\$318
Forward Motion Indicator		X		630638	\$56
Hitch, Clevis - 5/8" hole (Requires Rear Bumper)		X		602133	\$182
Hitch, Pintle (Requires Rear Bumper)		X		601927	\$215
Sun Canopy (Top) Short			X	602134	\$333
Sun Canopy (Top) Long			X	602332	\$1,238
Windshield (Requires Long Sun Canopy)			X	602908	\$134
Windshield, Fold Down (Requires Short Sun Canopy)			X	74910G01	\$155
Weather Protection Enclosure (Lg Top & Windshld Req'd)			X	602628	\$661
CUSTOM:					
Bed Extension (up to 96" total length)			X	Custom Quote: 3314	\$784
Amber Class 3 Strobe on Pole			X	Custom Quote: 4820	\$320
Installation of Hard Cab			X	Custom Quote: 4395	\$508
Aluminum Van Box with Side Doors			X	Custom Quote: 3672	\$3,333

* Field options do not include installation
 * Please refer to Custom Shop price pages for more options

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 State & local taxes & fees apply
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Cushman
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Effective: January 1, 2015
 All prices Ex-works Augusta, GA, USA
 All orders subject to acceptance & credit approval by E-Z-GO
 Terms: Net 30 days



MODEL: TITAN T-1145 (*Titan XD base*)
TYPE: 48 VOLT MATERIALS CARRIER AND AERIAL LIFT
OPTION PART NO: 632117 FOR TITAN XD (618566)



Retail Price: \$26,660

PRODUCT SPECIFICATION

CONFIGURATION HIGHLIGHTS

Warranty: 12 months
Battery Charger: On-board, fully line compensating. Underwriters Laboratories. (U.L.) Listed, (C.S.A. Certified), and CE Marked
Input: 110 – 120 Volt, 60 Hz, 10.5 amp
Output: 48 VDC at 18 amp. 14.5 amp @ 100 VAC
Motor: 48 Volt DC shunt wound, brazed armature, solid copper windings. Fan Forced Cooled 17.2 hp (12.8 kW) (Peak)
Drive Train: Direct motor shaft connected to transaxle pinion shaft
Electrical System: 48 Volt DC, (8) x 6-volt deep cycle batteries (115 minute minimum, 225 amp-hour @ 20 hr. discharge rate) in two swing out battery trays
Standard recessed headlights with DC-DC converter included
Transaxle: Differential with helical gears
Brakes: Front hydraulic disc brakes. Rear wheel hydraulic 160mm self-adjusting drum brakes. Mechanical hand operated park brake
Cargo Bed: Plywood 75 in x 41 in (191 x 105 cm). Lifts for access to powertrain.
Capacity: Seating for 2 persons
Towing: 4250 lb (1928 kg)/3000lb(1361 kg)EE **Draw Bar Pull (Normal):** 125 lbs , 57.8 kg - per ANSI B56.9

PRODUCT OVERVIEW

DIMENSIONS

Overall Length 114.0 in (290 cm)
Overall Width 44.5 in (113 cm)
Overall Height (Steering Whl) 47.5 in (120.6 cm)
Overall Height (Optional Cab) 72.0 in (183 cm)
Wheel Base 67.0 in (170 cm)
Front Wheel Track 38.0 in (96.5 cm)
Rear Wheel Track 38.0 in (96.5 cm)
Gnd Clearance @ Differential 5.0 in (12.7 cm)
Cargo Deck Width 41.5 in (105 cm)
Cargo Deck Length 75.0 in (191 cm)
Cargo Deck Load Height 29.0 in (74 cm)
Cargo Deck Material Heavy Duty Plywood

VEHICLE POWER

Power Source 48 Volts DC
Motor Type Shunt Wound
Horsepower (kW) 17.2 hp (12.8 kW) (Peak)
Electrical System 48 Volt
Batteries (Qty, Type) Eight, 6 Volt Deep Cycle, Swing Out Batteries
Key or Pedal Start Pedal Start
Battery Charger 48V On-Board, 120VAC UL R/C
Speed Controller Solid State 400 Amp Precision Drive System®
Drive Train Motor Shaft Direct Drive
Transaxle Differential with Helical Gears
Gear Selection Dash Mounted Forward-Neutral-Reverse
Rear Axle Ratio 14.9:1 (17:1 EE)

PERFORMANCE

Capacity 2 Persons
Dry Weight 2958 lb (1341 kg) (Without Batteries)
Curb Weight 3502 lb (1588 kg)
Cargo Deck Load Capacity n/a
Vehicle load capacity 1750 lb (794 kg) /750 lb(340 kg) EE
Outside Clearance Circle 21.25 ft (6.47 m)
Intersecting Aisle Clearance 84.0 in (213 cm)
Speed (Level Ground) 13 mph ± 0.5 mph (21 kph ± 0.8 kph)
Type EE 10 mph ± .5 (16.1 kph ± 0.8)

STEERING & SUSPENSION

Steering Rack and Pinion
Front Suspension Independent, Transverse Leaf Spring, Shocks
Rear Suspension Leaf Springs & Shock Absorbers
Service Brake Front Hydraulic Disc, Rear Hydraulic Drum
Parking Brake Hand Operated Mechanical
Front Tire 5.70 x 8 (Load Range C), solid non-marking
Rear Tires 5.70 x 8 (Load Range C), solid non-marking

BODY & CHASSIS

Frame & Body Welded steel with DuraShield™ powder coat
Body & Finish Diamond plate ptn. Polyester primer + acrylic
Standard Color Yellow

SCISSOR LIFT

Base Platform Max Height 11' 3" (343 cm)
Working Height 17' 3" (526 cm)
Vehicle Stowed Height 69" (175 cm)
Platform Extension 19" (48 cm)
Total Platform Capacity 750 lbs (340 kg)
Platform Slide-Out Extension 250 lbs (113 kg)
Time to Deploy Immobilizer <7 seconds
Time to Lift/Lower Platform <25 seconds
ANSI Requirements Tested and meets ANSI Standard 92.6

Type E and EE Vehicles certified to UL583



CUSHMAN

FEATURES AND OPTIONS *

FEATURES	STD	OPT	FLD
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TIRES & WHEELS:

Front & Rear:

5.70 x 8 (Load Range C), Solid Non-Marking	X		
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COLORS:

Vehicle Color - Yellow	X		
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OTHER PERFORMANCE:

Front Hydraulic Disk & Rear Hydraulic Drum Brakes,	X		
Bumper (Front)	X		
Bumper (Rear)	X		

ELECTRICAL:

Batteries:

T-145 48V 250 Amp Battery Upgrade	X		
DC/DC converter	X		

Lighting Package:

Headlights & Turn Signals	X		
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Other Electrical:

Horn	X		
Hour Meter	X		
State of Charge Meter	X		